

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	1	"6675450".pn.	US-PGPUB; USPAT	OR	ON	2005/12/15 09:38
S2	301	310/320.ccls.	US-PGPUB; USPAT	OR	ON	2005/12/15 12:16
S3	1149	"thin film resonator" or TFR	US-PGPUB; USPAT	OR	ON	2005/12/15 09:38
S4	81188	piezoelectric	US-PGPUB; USPAT	OR	ON	2005/12/15 09:39
S5	185	etch adj resistant near4 film	US-PGPUB; USPAT	OR	ON	2005/12/15 10:23
S6	4	S3 and S4 and S5	US-PGPUB; USPAT	OR	ON	2005/12/15 09:39
S7	68	("20020170746"   "20030037959"   "4502932"   "4556812"   "4719383"   "4890370"   "4988957"   "5075641"   "5166646"   "5231327"   "5232571"   "5263259"   "5266520"   "5283458"   "5294898"   "5303457"   "5334960"   "5348617"   "5367308"   "5373268"   "5381385"   "5403701"   "5404628"   "5438554"   "5446306"   "5552655"   "5587620"   "5596239"   "5617065"   "5630949"   "5646583"   "5692279"   "5698928"   "5702775"   "5704116"   "5714917"   "5760663"   "5780713"   "5789845"   "5821833"   "5853601"   "5864261"   "5872493"   "5873153"   "5873154"   "5883575"   "5884378"   "5894647"   "5910756"   "5928598"   "5942958"   "5963856"   "6051907"   "6060818"   "6081171"   "6087198"   "6127768"   "6131256"   "6150703"   "6185589"   "6198208"   "6204737"   "6215375"   "6278342"   "6323744"   "6355498"   "6546620").PN. OR ("6675450").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/12/15 09:40
S8	9	(US-6355498-\$ or US-6323744-\$ or US-6278342-\$ or US-6215375-\$ or US-6131256-\$ or US-6087198-\$ or US-5910756-\$ or US-5884378-\$ or US-5780713-\$).did.	USPAT	OR	ON	2005/12/15 09:59
S9	0	S8 and etch adj resist\$3	US-PGPUB; USPAT	OR	ON	2005/12/15 10:01

## EAST Search History

S10	4	S3 and S5	US-PGPUB; USPAT	OR	ON	2005/12/15 10:00
S11	0	S8 and ((etch adj resist\$3) etch-resist\$3)	US-PGPUB; USPAT	OR	ON	2005/12/15 10:02
S12	10	S3 and ((etch adj resist\$3) etch-resist\$3)	US-PGPUB; USPAT	OR	ON	2005/12/15 10:02
S13	36	("2806966"   "2808523"   "2816239"   "3818254"   "4547648"   "5138214"   "5235135"   "5347138"   "5641391").PN. OR ("5780713"). URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/12/15 10:21
S14	4	substrate and (etch-resistant adj film) and resonator	US-PGPUB; USPAT; USOCR	OR	ON	2005/12/15 10:22
S15	175	substrate and (etch-resistant adj film or photo-resist) and resonator	US-PGPUB; USPAT; USOCR	OR	ON	2005/12/15 10:22
S16	22314	(etch adj resistant or photo\$1resist or photoresist) near4 film	US-PGPUB; USPAT	OR	ON	2005/12/15 10:26
S17	11	S16 and S3 and S4	US-PGPUB; USPAT	OR	ON	2005/12/15 10:25
S18	106673	etch adj resistant or photo\$1resist or photoresist	US-PGPUB; USPAT	OR	ON	2005/12/15 13:00
S19	60	S18 and S3 and S4	US-PGPUB; USPAT	OR	ON	2005/12/15 10:55

## EAST Search History

S20	56	((("6215375") or ("6060818") or ("5883575") or ("5873153") or ("5780713") or ("5587620") or ("5403701") or ("5381385") or ("5438554") or ("5894647") or ("5630949") or ("5404628") or ("5231327") or ("5942958") or ("5821833") or ("5864261") or ("5367308") or ("5348617") or ("5232571") or ("5075641") or ("4988957") or ("4719383") or ("4556812") or ("4502932") or ("5596239") or ("5303457") or ("5702775") or ("5334960") or ("5928598") or ("5166646") or ("5294898") or ("5373268") or ("5692279") or ("5698928") or ("5760663") or ("5884378") or ("6081171") or ("6051907") or ("5910756") or ("5872493") or ("5714917") or ("6204737") or ("5552655") or ("5446306") or ("5283458") or ("6150703") or ("4890370") or ("5646583") or ("6198208") or ("6087198") or ("6127768") or ("5789845") or ("5963856") or ("5263259") or ("5853601") or ("6185589")).PN.	US-PGPUB; USPAT	OR	OFF	2005/12/15 11:00
S21	331271	etch adj resistant or photo\$1resist or photoresist or etch\$	US-PGPUB; USPAT	OR	ON	2005/12/15 13:15
S22	1149	"thin film resonator" or TFR	US-PGPUB; USPAT	OR	ON	2005/12/15 13:50
S23	81188	piezoelectric	US-PGPUB; USPAT	OR	ON	2005/12/15 13:02
S24	204	S21 and S22 and S23	US-PGPUB; USPAT	OR	ON	2005/12/15 13:02
S25	81	S21 and S22 and S23 and membrane	US-PGPUB; USPAT	OR	ON	2005/12/15 13:50
S26	108059	etch adj resistant or photo\$1resist or photoresist or etch-stop	US-PGPUB; USPAT	OR	ON	2005/12/15 13:15
S27	60	S26 and S22 and S23	US-PGPUB; USPAT	OR	ON	2005/12/15 13:15
S29	16	S21 and S22 and S23 and solder	US-PGPUB; USPAT	OR	ON	2005/12/15 13:55
S30	7	S21 and S22 and S23 and solder and die	US-PGPUB; USPAT	OR	ON	2005/12/15 13:57
S31	10	S21 and S22 and S23 and solder and package	US-PGPUB; USPAT	OR	ON	2005/12/15 13:58

## EAST Search History

S32	5	S21 and S22 and S23 and (solder same package)	US-PGPUB; USPAT	OR	ON	2005/12/15 14:00
S33	8	S22 and S23 and (solder same package)	US-PGPUB; USPAT	OR	ON	2005/12/15 14:01
S34	8387	S21 and (solder same package)	US-PGPUB; USPAT	OR	ON	2005/12/15 14:01
S35	10	S22 and (solder same package)	US-PGPUB; USPAT	OR	ON	2005/12/15 14:10
S36	56	(("6215375") or ("6060818") or ("5883575") or ("5873153") or ("5780713") or ("5587620") or ("5403701") or ("5381385") or ("5438554") or ("5894647") or ("5630949") or ("5404628") or ("5231327") or ("5942958") or ("5821833") or ("5864261") or ("5367308") or ("5348617") or ("5232571") or ("5075641") or ("4988957") or ("4719383") or ("4556812") or ("4502932") or ("5596239") or ("5303457") or ("5702775") or ("5334960") or ("5928598") or ("5166646") or ("5294898") or ("5373268") or ("5692279") or ("5698928") or ("5760663") or ("5884378") or ("6081171") or ("6051907") or ("5910756") or ("5872493") or ("5714917") or ("6204737") or ("5552655") or ("5446306") or ("5283458") or ("6150703") or ("4890370") or ("5646583") or ("6198208") or ("6087198") or ("6127768") or ("5789845") or ("5963856") or ("5263259") or ("5853601") or ("6185589")).PN.	US-PGPUB; USPAT	OR	OFF	2005/12/15 14:08
S37	3	S36 and package and solder	US-PGPUB; USPAT	OR	ON	2005/12/15 14:08
S38	378	S23 and (solder same package)	US-PGPUB; USPAT	OR	ON	2005/12/15 14:10
S39	59	S23 and (solder same package same die)	US-PGPUB; USPAT	OR	ON	2005/12/15 14:19
S40	17	S23 and (solder same package same die) and (solder with lead)	US-PGPUB; USPAT	OR	ON	2005/12/15 14:27
S41	6	S23 and (solder same package same die) and ((solder with lead) same reflow)	US-PGPUB; USPAT	OR	ON	2005/12/15 14:29

## EAST Search History

S42	23	(solder same package same die) and ((solder with lead) same reflow) and (parasitic near5 (inductance or capacitance))	US-PGPUB; USPAT	OR	ON	2005/12/15 15:34
S43	19	kaitila.in.	US-PGPUB; USPAT	OR	ON	2005/12/15 15:34
S44	1	"6675450".pn.	US-PGPUB; USPAT	OR	ON	2006/07/13 09:18
S45	1270	"thin film resonator" or TFR	US-PGPUB; USPAT	OR	ON	2006/07/13 09:30
S46	87861	piezoelectric	US-PGPUB; USPAT	OR	ON	2006/07/13 09:18
S47	195	etch adj resistant near4 film	US-PGPUB; USPAT	OR	ON	2006/07/13 09:18
S48	4	S45 and S46 and S47	US-PGPUB; USPAT	OR	ON	2006/07/13 09:18
S49	68	("20020170746"   "20030037959"   "4502932"   "4556812"   "4719383"   "4890370"   "4988957"   "5075641"   "5166646"   "5231327"   "5232571"   "5263259"   "5266520"   "5283458"   "5294898"   "5303457"   "5334960"   "5348617"   "5367308"   "5373268"   "5381385"   "5403701"   "5404628"   "5438554"   "5446306"   "5552655"   "5587620"   "5596239"   "5617065"   "5630949"   "5646583"   "5692279"   "5698928"   "5702775"   "5704116"   "5714917"   "5760663"   "5780713"   "5789845"   "5821833"   "5853601"   "5864261"   "5872493"   "5873153"   "5873154"   "5883575"   "5884378"   "5894647"   "5910756"   "5928598"   "5942958"   "5963856"   "6051907"   "6060818"   "6081171"   "6087198"   "6127768"   "6131256"   "6150703"   "6185589"   "6198208"   "6204737"   "6215375"   "6278342"   "6323744"   "6355498"   "6546620").PN. OR ("6675450").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/07/13 09:18
S50	9	(US-6355498-\$ or US-6323744-\$ or US-6278342-\$ or US-6215375-\$ or US-6131256-\$ or US-6087198-\$ or US-5910756-\$ or US-5884378-\$ or US-5780713-\$).did.	USPAT	OR	ON	2006/07/13 09:18

## EAST Search History

S51	0	S50 and etch adj resist\$3	US-PGPUB; USPAT	OR	ON	2006/07/13 09:18
S52	4	S45 and S47	US-PGPUB; USPAT	OR	ON	2006/07/13 09:18
S53	0	S50 and ((etch adj resist\$3) etch-resist\$3)	US-PGPUB; USPAT	OR	ON	2006/07/13 09:18
S54	12	S45 and ((etch adj resist\$3) etch-resist\$3)	US-PGPUB; USPAT	OR	ON	2006/07/13 09:18
S55	36	("2806966"   "2808523"   "2816239"   "3818254"   "4547648"   "5138214"   "5235135"   "5347138"   "5641391").PN. OR ("5780713"). URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/07/13 09:18
S56	4	substrate and (etch-resistant adj film) and resonator	US-PGPUB; USPAT; USOCR	OR	ON	2006/07/13 09:18
S57	189	substrate and (etch-resistant adj film or photo-resist) and resonator	US-PGPUB; USPAT; USOCR	OR	ON	2006/07/13 09:18
S58	24092	(etch adj resistant or photo\$1resist or photoresist) near4 film	US-PGPUB; USPAT	OR	ON	2006/07/13 09:18
S59	13	S58 and S45 and S46	US-PGPUB; USPAT	OR	ON	2006/07/13 09:18
S60	115822	etch adj resistant or photo\$1resist or photoresist	US-PGPUB; USPAT	OR	ON	2006/07/13 09:18
S61	67	S60 and S45 and S46	US-PGPUB; USPAT	OR	ON	2006/07/13 09:18

## EAST Search History

S62	56	((("6215375") or ("6060818") or ("5883575") or ("5873153") or ("5780713") or ("5587620") or ("5403701") or ("5381385") or ("5438554") or ("5894647") or ("5630949") or ("5404628") or ("5231327") or ("5942958") or ("5821833") or ("5864261") or ("5367308") or ("5348617") or ("5232571") or ("5075641") or ("4988957") or ("4719383") or ("4556812") or ("4502932") or ("5596239") or ("5303457") or ("5702775") or ("5334960") or ("5928598") or ("5166646") or ("5294898") or ("5373268") or ("5692279") or ("5698928") or ("5760663") or ("5884378") or ("6081171") or ("6051907") or ("5910756") or ("5872493") or ("5714917") or ("6204737") or ("5552655") or ("5446306") or ("5283458") or ("6150703") or ("4890370") or ("5646583") or ("6198208") or ("6087198") or ("6127768") or ("5789845") or ("5963856") or ("5263259") or ("5853601") or ("6185589")).PN.	US-PGPUB; USPAT	OR	OFF	2006/07/13 09:18
S63	314	310/320.ccls.	US-PGPUB; USPAT	OR	ON	2006/07/13 09:18
S64	359403	etch adj resistant or photo\$1resist or photoresist or etch\$	US-PGPUB; USPAT	OR	ON	2006/07/13 09:18
S65	1270	"thin film resonator" or TFR	US-PGPUB; USPAT	OR	ON	2006/07/13 09:18
S66	87861	piezoelectric	US-PGPUB; USPAT	OR	ON	2006/07/13 09:18
S67	227	S64 and S65 and S66	US-PGPUB; USPAT	OR	ON	2006/07/13 09:18
S68	89	S64 and S65 and S66 and membrane	US-PGPUB; USPAT	OR	ON	2006/07/13 09:18
S69	117345	etch adj resistant or photo\$1resist or photoresist or etch-stop	US-PGPUB; USPAT	OR	ON	2006/07/13 09:18
S70	68	S69 and S65 and S66	US-PGPUB; USPAT	OR	ON	2006/07/13 09:18
S71	20	S64 and S65 and S66 and solder	US-PGPUB; USPAT	OR	ON	2006/07/13 09:18
S72	9	S64 and S65 and S66 and solder and die	US-PGPUB; USPAT	OR	ON	2006/07/13 09:18

## EAST Search History

S73	12	S64 and S65 and S66 and solder and package	US-PGPUB; USPAT	OR	ON	2006/07/13 09:18
S74	5	S64 and S65 and S66 and (solder same package)	US-PGPUB; USPAT	OR	ON	2006/07/13 09:18
S75	8	S65 and S66 and (solder same package)	US-PGPUB; USPAT	OR	ON	2006/07/13 09:18
S76	9400	S64 and (solder same package)	US-PGPUB; USPAT	OR	ON	2006/07/13 09:18
S77	10	S65 and (solder same package)	US-PGPUB; USPAT	OR	ON	2006/07/13 09:18
S78	56	(("6215375") or ("6060818") or ("5883575") or ("5873153") or ("5780713") or ("5587620") or ("5403701") or ("5381385") or ("5438554") or ("5894647") or ("5630949") or ("5404628") or ("5231327") or ("5942958") or ("5821833") or ("5864261") or ("5367308") or ("5348617") or ("5232571") or ("5075641") or ("4988957") or ("4719383") or ("4556812") or ("4502932") or ("5596239") or ("5303457") or ("5702775") or ("5334960") or ("5928598") or ("5166646") or ("5294898") or ("5373268") or ("5692279") or ("5698928") or ("5760663") or ("5884378") or ("6081171") or ("6051907") or ("5910756") or ("5872493") or ("5714917") or ("6204737") or ("5552655") or ("5446306") or ("5283458") or ("6150703") or ("4890370") or ("5646583") or ("6198208") or ("6087198") or ("6127768") or ("5789845") or ("5963856") or ("5263259") or ("5853601") or ("6185589")).PN.	US-PGPUB; USPAT	OR	OFF	2006/07/13 09:18
S79	3	S78 and package and solder	US-PGPUB; USPAT	OR	ON	2006/07/13 09:18
S80	421	S66 and (solder same package)	US-PGPUB; USPAT	OR	ON	2006/07/13 13:32
S81	64	S66 and (solder same package same die)	US-PGPUB; USPAT	OR	ON	2006/07/13 09:18
S82	18	S66 and (solder same package same die) and (solder with lead)	US-PGPUB; USPAT	OR	ON	2006/07/13 09:18
S83	6	S66 and (solder same package same die) and ((solder with lead) same reflow)	US-PGPUB; USPAT	OR	ON	2006/07/13 09:18

## EAST Search History

S84	25	(solder same package same die) and ((solder with lead) same reflow) and (parasitic near5 (inductance or capacitance))	US-PGPUB; USPAT	OR	ON	2006/07/13 09:18
S85	20	kaitila.in.	US-PGPUB; USPAT	OR	ON	2006/07/13 09:18
S86	111394	piezo\$	US-PGPUB; USPAT	OR	ON	2006/07/13 09:30
S87	195101	edge with mount\$	US-PGPUB; USPAT	OR	ON	2006/07/13 11:40
S88	3905	S86 and S87	US-PGPUB; USPAT	OR	ON	2006/07/13 09:31
S89	41482	resonator	US-PGPUB; USPAT	OR	ON	2006/07/13 09:32
S90	272	S88 and S89	US-PGPUB; USPAT	OR	ON	2006/07/13 10:34
S91	36053	t-cell	US-PGPUB; USPAT	OR	ON	2006/07/13 10:34
S92	610	S86 and S91	US-PGPUB; USPAT	OR	ON	2006/07/13 13:48
S93	538775	side with mount\$	US-PGPUB; USPAT	OR	ON	2006/07/13 11:40
S94	13869	S86 and S93	US-PGPUB; USPAT	OR	ON	2006/07/13 11:40
S95	254629	side near3 mount\$	US-PGPUB; USPAT	OR	ON	2006/07/13 11:40
S96	7199	S86 and S95	US-PGPUB; USPAT	OR	ON	2006/07/13 11:40
S97	840	S89 and S96	US-PGPUB; USPAT	OR	ON	2006/07/13 11:40
S98	17	("2626363"   "3209178"   "3340410"   "4034318"   "4079284"   "4124809"   "4216402"   "4292562"   "4443728").PN. OR ("4642511"). URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/07/13 12:09
S99	1027	film adj bulk adj acoustic adj resonator or FBAR	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/13 12:19
S100	12	("4468582"   "4783821"   "4870313"   "4924131"   "5373268"   "5884378"   "5910756"   "6111341"   "6476536"   "6486751").PN. OR ("6812619").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/07/13 13:11

## EAST Search History

S10 1	401	310/320.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/13 13:12
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